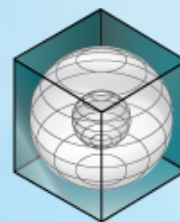




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Sustainable Performance...by Design

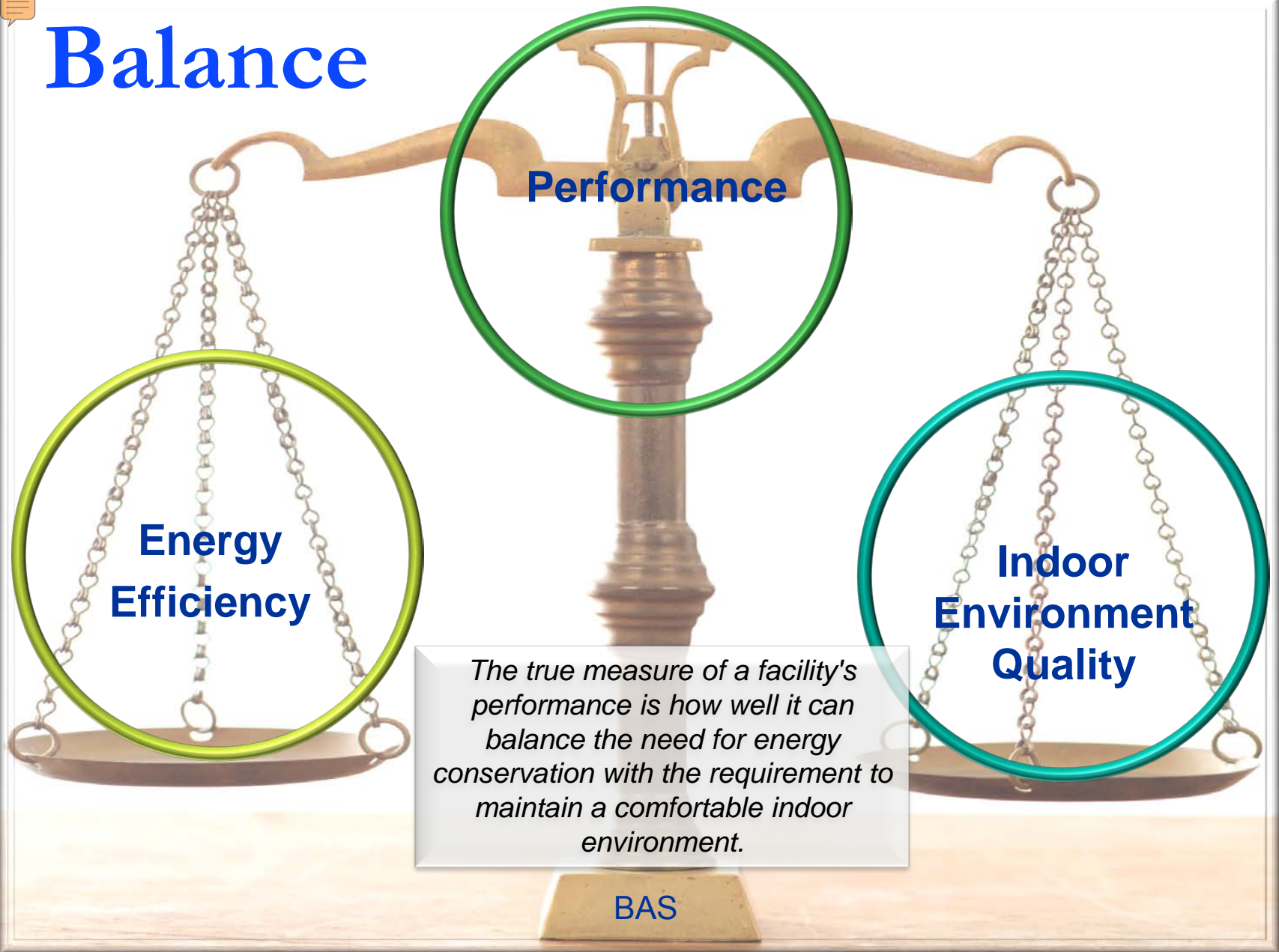
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The Built Environment – Design Intent & Results

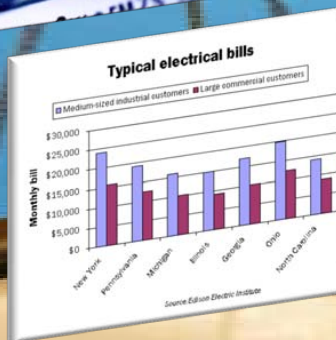
- Building use 40% of all primary energy worldwide
- Design has a large impact on efficiency considering the 50-80 life cycle of a building.
- Only 50% of surveyed LEED buildings met design expectations.
- LEED 3V addresses this by emphasizing the importance of M&V



Balance



Why Measure?



“You can’t manage what you don’t measure!”

The Role of the BAS

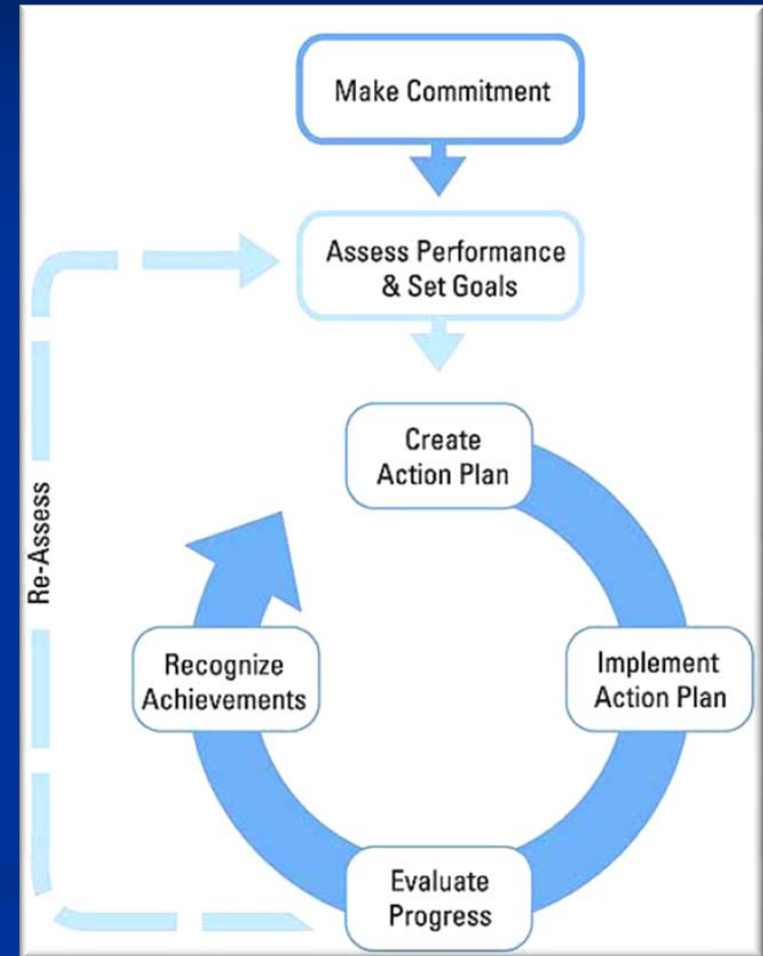
- Next to salaries, the energy budget can be the largest portion of a facility's annual costs.
- The BAS controls your largest energy loads (HVAC & Lighting)
- It should be able to maximize system efficiency and measure facility performance
- It is important to choose the right BAS for your facility
- Information should be timely, intuitive and revealing



BEST PRACTICES FOR SUSTAINABLE EFFICIENCY



- Commit — Must have buy in from the top.
- Assess — Identify the opportunities for savings.
- Reduce — Target the low hanging fruit first.
- Envision — Evaluate your success and repeat.
 - (Re-commit, Re-assess, Reduce, Re-envision)



Bringing it all together

- **Convince the Owner of the value of an intelligent BAS that provides the features mentioned in this presentation.**
- **Understand that the costs are far out-weighed by the sustained savings. Don't fall into the VE trap.**
- **Write a performance spec that requires the M&V features.**
- **Understand the impact of design on MEP system efficiency – both positive & negative.**



Questions?

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